

IN THE CLAIMS

Please amend the following claims by deleting the bracketed material and inserting that which is underlined.

18. (Amended) Method for constructing an optical assay device with laminar flow properties, comprising the steps of:

providing a support,

providing an optically functional layer on said support such that said optically functional layer and said support allow for laminar flow of a sample through or through and across layers of said device,

providing an attachment layer on said optically functional layer, and

providing an analyte specific receptive layer on said optically functional layer.

19. (Amended) Method for constructing an optical assay device with laminar flow properties, comprising the steps of:

providing a support,

providing an optically functional layer on said support such that said optically functional layer and said support allow for laminar flow of a sample through or through and across layers of said device, and

providing an attachment layer on said optically functional layer.

REMARKS

The invention relates in part to assay devices that utilize mass transport by laminar flow of a sample through the layers of the device. Because laminar flow overcomes limitations in sensitivity caused by diffusion boundary formation as an analyte binds to a surface, the devices of the present invention can provide advantageous analyte capture efficiencies. In certain embodiments, the devices comprise an optically functional layer containing components that produce a signal upon analyte binding.